

GRABOWSKI, Zbigniew Ryszard

Chemical Abst.
Vol. 48 No. 9
May 10, 1954
Electrochemistry

Reduction products of the nitrate ion at the dropping mercury cathode. Zbigniew Ryszard Grabowski (UWIV, Warsaw). Roczniki Chem. 27, 285-91 (1953) (English summary).—The no. of electrons, $n = 0.8$, involved in the polarographic reduction of the nitrate ion, in the presence of La^{+3} or Ce^{+4} , was detd. by a microcoulometric method. Final concn. of NO_3^- was detd. after re-soln. of the basic nitrate ppd. during the electrolysis. The value of n and qual. tests on the electrolyzed soln. showed reduction of NO_3^- to NH_2OH and NH_3 in similar amts. Results of Mailes (C.A. 43, 839a) could not be reproduced; they were attributed to exp'l. error. M. Falk

GRABOWSKI, Z.

USSR

✓ 1571. Method for the rapid determination of
xylene in printing-shop air. M. Niszczynski and
Z. Grabowski (*Ochrona Pracy*, 1951, 8 [2], 57-59;
Rozprawy ZA, Khim., 1954, Abstr. No. 32,019).—
Xylene vapour is absorbed on silica gel saturated
with a mixture of conc. H_2SO_4 and formaldehyde.
The xylene turns the gel brown, 0.65 mg giving a
marked colour. The colour is measured by means
of a visual colorimeter, and the amount of xylene
is determined by comparison with standards. The
error is 0.01 mg per litre. The xylene concn. in air
should not exceed 0.1 mg per litre. E. Hayes

GRABOWSKI, ZBIGNIEW

POL

Application of Hammett's rule to the polarographic reduction of aldehydes. Zbigniew R. Grabowski (Univ. Warsaw). Roczniki Chem. 28, 613-618 (1954) (English summary); cf. Hammett, *Physical Organic Chemistry*, 1940, p. 186 (C.A. 34, 4332); Jaffé, C.A. 48, 11243. — Hammett's rule is applied to the exptl. results concerning the reduction of substituted benzaldehydes, given by Holleck and Morsen (C.A. 48, 65774). The half-wave potentials of substitutes obey Hammett's rule in alk. soln., especially well at pH 13. For *m*- and *p*-substitutes the equation is determined: $E_{1/2} = -1.408 + 0.333 \mu$ v. against satd. calomel electrode in water soln. + 5% MeOH at 20°. The following values were obtained: reaction const. $\rho = +0.333 \pm$; correlations factor $r = 0.986$; av. deviation $\bar{x} = \pm 0.024 \text{ v.}$; and no. of compds. $n = 18$. Two explanations are given for the possibility of Hammett's rule application: (1) If the reduction $\text{RCHO} + e^- \rightarrow \text{RCHO}^-$ is irreversible at pH 13, the electrode reaction is slow. According to Brumkin, et al. (*Kinetics of Electrode Processes*, 1952 (C.A. 46, 125014)) if $i = kC_e^{-1/F(\delta - \phi)/RT}$ and assuming that $a \approx \text{const.}$ and $\phi_1 = \text{const.}$, so $E_1 - E_{1/2} = (RT/aF) \ln (\delta^2/k_1)$. (2) If the reduction is reversible, the half-wave potential is nearly equal to the equilibrium potential $\phi_0 = E_1^0 - E_{1/2}^0 \approx -(\Delta\Delta G^\circ/aF)$. The given exptl. results, especially with regard to the measured slope of the wave and no influence of gelatin addn. on the half-wave potential, seems to show that the reversibility of the reduction is more probable.

V. V. J.

GRABOWSKI, ZBIGNIEW RYSZARD

✓ Comparison of the absorption spectra of the nitrate ion with its cathode reducibility. Zbigniew Ryszard Grabowski and Wieslawa Turnowska (POLSKA) (CZECHOSLOVAKIA). Chem. 29, 740-53 (1955) (German summary). —The absorption spectra of the nitrate ion was compared with its polarographic behavior in the presence of an 0.02M soln. of LaCl₃. No dependence of the cathode reducibility of the nitrate ion on the shifting of absorption band in the presence of trivalent La was observed. P. Dreyfuss

(1)
PM

Distr: 4E3d

A glass spectrograph with direct vision prism. Henryk Niewodniczanski and Zbigniew Grabowski (Univ. Krakow, Poland). *Zeszyty Nauk. Uniw. Jagiel., Ser. Nauk Mat.-Przyrod., Mat., Fiz., Chem.* No. 2, 31-6(1950) (English summary).—A simple glass spectrograph with a direct vision prism 143 mm. long of the Amici type of 4° angular C-P dispersion and with 2 achromatic 172 and 330 mm. lenses, has

CC

been constructed; the range, 4000-6000 Å., corresponded to 75 mm., on 9 X 12 plates. J. Stecki

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

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APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

GRABOWSKI, Z.R.; ZHDANOV, S.I.

On the polarographic behavior of hydroxylamine. Zhur. fiz. khim. 31
no.5:1162-1165 My '57. (MIRA 10:11)

1. Pol'skaya AN., Institut fizicheskoy khimii, Varshava i AN SSSR,
Institut fizicheskoy khimii, Moskva.
(Xyroxylamine) (Polarography)

5(4)

AUTHOR:

Grabowski , Z. R.

SOV/76-33-3-36/41

TITLE:

On the Relationship Between the Excitation Energy of Electrons and Electroreduction Energy of Aromatic Molecules (O sootnosheniakh mezhdu energiyey elektronnogo vozbuздeniya i energiyey elektrovosstanovleniya aromaticeskikh molekul). On the Occasion of the Letter by S. V. Gorbachev and S. F. Belevskiy [1] (Po povodu pis'ma S. V. Gorbacheva i S. F. Belevskogo [1])

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 3, pp 728-731
(USSR)

ABSTRACT:

It is stated that S. V. Gorbachev's and S. F. Belevskiy's representation of a similarity between electroreduction and photoreduction (Ref 1) is unfounded. In interpreting the equation $-E_{red} = \text{const} - kh\nu$ (1) the above-mentioned authors take no account of many theoretical and experimental publications dealing with the problem of the relations between the excitation energy and the reduction potential of aromatic molecules. This is proved by examples of apolar conjugate systems (Refs 3-10), of the influence exercised by substituents upon reduction potentials (Refs 12-23) as well as of

Card 1/3

On the Relationship Between the Excitation Energy of SOV/76-33-3-36/41 Electrons and Electroreduction Energy of Aromatic Molecules. On the Occasion of the Letter by S. V. Gorbachev and S. F. Belevskiy [1]

the influence exercised by substituents upon excitation energy (Ref 24). These interpretations comprise schematic representations of quantum excitations (Fig 1), variations of energy levels (Fig 2) and of alternative basic relations between the reduction potential and the excitation energy of aromatic molecules on the basis of corresponding equations and by the example of nitro-benzenes (Ref 26)(Fig 3). It is stated that the paper (Ref 1) is not dedicated to a new field of investigation. According to the aforesaid interpretations it was found that equation (1) may be derived therefrom and their limitation may be determined. The ratio between the energy of electroreduction and the energy of electron excitation can adopt various forms, depending on the substituent and the electron transition. There are 3 figures and 26 references, 2 of which are Soviet.

Card 2/3

On the Relationship Between the Excitation Energy of SOV/76-33-3-36/41
Electrons and Electroreduction Energy of Aromatic Molecules. On the Occasion
of the Letter by S. V. Gorbachev and S. F. Belevskiy [1]
ASSOCIATION: Varshavskiy universitet Kafedra neorganicheskoy khimii;
Pol'sha (Warsaw University, Chair of Inorganic Chemistry,
Poland)

SUBMITTED: January 20, 1958

Card 3 /3

G RABOWSKI, Zbigniew Ryszard

✓ The temperature dependence of the protolytic equilibrium constant of *p*-dimethylaminobenzaldehyde. I. Wiesława Ruzaszewska and Zbigniew Ryszard Grabowski (Univ. Warsaw). Roczniki Chem. 33, 781-8 (1969) (in English). — The values of dissociation constants, pK, of *p*-dimethylaminobenzaldehyde in aqueous solutions at concentrations 10^{-4} to 10^{-3} moles/l. and temperatures of 9 to 30° were determined by the spectrophotometric method in the range 335-70 m μ . The results are expressed as: $pK = 0.327 + 385/T$, where T is the abs. temp. The heat of the isoelectric reaction is 1.8 kcal./mole, the standard entropy at 25° is -1.5 e.u.

A. Kreglewski

5
4E3d
4E2c (1)
1998 (1B)

Card 1/1

aht

99

KEMULA, Wiktor; GRABOWSKI, Zbigniew R.; BARTEL, Ewa Teresa

Polarographic kinetic currents due to the reaction of p-dimethylamino-benzaldehyde with proton donors. Rocznik chemii 33 no.4/5:1125-1135 '59.
(EEAI 9:9)

1. Katedra Chemii Nieorganicznej Uniwersytetu Warszawa i Zakład
Fizykochemicznych Metod Analitycznych Instytutu Chemii Fizycznej
Polskiej Akademii Nauk, Warszawa
(Polarograph and polarography)
(Dimethylaminobenzaldehyde)
(Protons)

GRABOWSKI, Zbigniew R.; ZIEBORAK, Kazimierz

On the tasks of the Institute of Physical Chemistry of the
Polish Academy of Sciences. Nauka polska 8 no.3:173-177
JL-S '60.

1. Instytut Chemii Fizycznej, Polska Akademia Nauk, Warszawa.

KEMULA, W.; GRABOWSKI, Z. R.; KALINOWSKI, M. K.

Polarographic oxidation of benzopinacol. Coll Cz Chem 25 no.12:
3306-3312 D '60. (EEAI 10:9)

1. Department of Inorganic Chemistry, University, Warsaw, Poland.

(Polarograph and polarography) (Benzopinacol)

GRABOWSKI, Zbigniew Ryszard; BARTEL, Ewa Teresa

The influence of the double layer on the kinetics of the proton transfer reactions preceding the electroreduction of some substituted benzaldehydes. Rocznik chemii 34 no.2:611-619 '60. (EEAI 10:1)

1. Department of Inorganic Chemistry, University, Warszawa,
Laboratory of Physicochemical Methods of Analysis, Institute of
Physical Chemistry, Polish Academy of Science, Warszawa.
(Benzaldehyde)
(Polarograph and polarography)
(Protons)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRABOWSKI, Zbigniew Ryszard

Some methods of enzyme kinetics. Postepy biochem. 8 no.1:3-27 '62.

(ENZYMES)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

GRABOWSKI, Zbigniew, inz.

Pumps, compressors and fans at the 31st International Poznan Fair. Przegl mech 21 no.19/20:611-615 25 0 '62.

1. Metalexport, Warszawa.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRABOWSKI, Zbigniew R.

"Tetrazolium salts in biology" by Bela Jambor. Reviewed by
Zbigniew R. Grabowski. Roczniki chemii 36 no.1:184-185 '62.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRABOWSKI, Zbigniew (Warszawa); KALABINSKI, Boleslaw (Warszawa)

Secondary vibrations of concrete. Przegl budowl i bud mieszk 34
no.l:35-37, 44 Ja '62.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

GRABOWSKI, Zbigniew, mgr inz. (Warszawa)

Importance of underground water in foundation construction work.
Przegl budowl i bud mieszk 34 no.2:106-107 F '62.

REF ID: A6577

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRABOWSKI, Zbigniew (Warszawa)

Research on secondary and multiple vibration and the quality of
concrete. Przegl budowl i bud miesak 34 no.11:666-668 N '62.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRABOWSKI, Zb. R., doc. dr

Glue instead of surgical seams. Problemy 19 no.5:321 '63.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

GRABOWSKI, Zbigniew R.

"Progress in reaction kinetics" by G. Portor, B. Stevens.
Vol. 1. Reviewed by Zbigniew R. Grabowski. Rocznik chemii
36 no. 5: 988-989 '62.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRABOWSKI, Zb. R., doc. dr

More on reactions of rare gases. Problemy 19 no.10:647 '63.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

REUTOW, Oleg, prof. dr; GRABOWSKI, Zbigniew, R., doc. dr [translator]

Chemistry of metallorganic compounds as the science of the
future. Problemy 20 no.7:417-418 '64.

1. Corresponding member of the Academy of Sciences of the
U.S.S.R. (for Reutow).

GRABOWSKI, Zbigniew, doc. dr

Ten years of the Institute of Physical Chemistry of the Polish
Academy of Sciences. Problemy 20 no.11:700 '64.

GRABOWSKI, Zbigniew, inz.

Pumps at the International Poznan Fair. Przegl mech 23 no. 19:
567-569 10 0 '64.

1. "Metalexport" Foreign Trade Agency, Warsaw.

GRABOV, B.A., fel'dsher student (Barnaul)

Treatment of chemical necrosis of subcutaneous tissue by novocaine
block. Fel'd. 1 akush. 21 no.3:38-40 Mr '56. (MLRA 9:7)

1. Altayskiy gosudarstvennyy meditsinskiy institut
(NECROSIS) (NOVOCAINE)

CHUDNOVSKIY, A. R., inzh.; VAYSER, L. V., inzh.; GRABOY, L. P., inzh.;
MOROZ, V. A., inzh.

Using plastics in electroplating. Mashinostroenie no. 5:71-72
S-0 '62. (MIRA 16:1)

1. Odesskiy zaved kheledil'noe mashinostroyeniya.

(Electroplating) (Plastics)

EPF(c)/EPR/EWG(v)/EWP(s)/EWT(m)/T PC-4/Pc-5/~~Pr-4~~/~~Ps-4~~ RM/NW
APR 1965

AUTHOR: Graboy, L. P.; Lenskaya, L. P.; Chudnovskiy, A. R.

4D
B
15

Determination of the thermal conductivity of graphite-filled plastics
base: on epoxy resins

SOURCE: Plasticheskiye massy, no. 3, 1965, 41-43

TOPIC TAGS: graphite filled plastic, epoxy resin, graphite, injection molding,
capron, polyethylene, mold material, thermal conductivity

ABSTRACT: A new material has been developed for making molds for injection molding of plastics such as capron or polyethylene. The material consists of 100 parts by weight of thermosetting E-1200¹⁶ epoxy resin, 4 parts of polyethylene (curing agent), and 100-200 parts of electrode graphite (filler). The material exhibits high thermal conductivity and high heat resistance. The effect of temperature from 45.7 to 228.66 on the thermal conductivity of the new material was studied by a method developed by A. A. Semenov. Formulas are given for calculation of the thermal conductivity. Results of the study, given in the form of tables, indicate that the thermal conductivity of graphite-filled plastics with a high graphite content increases with the temperature of the

Card 1/2

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ACCESSION NR: AP5006562

specimen. Heat treatment stabilizes the higher thermal conductivity so that it is maintained at room temperature. The new material exhibits lasting heat resistance and strength at temperatures up to 300°. In view of their simple production technique the use of molds made with the new material is recommended by the authors.

(BG)

There are 2 figures and 2 tables.

A : COUNTRY: none

SUBMITTED: 00

ENCL: 00

SUF CODE: MT

NO REF SOC: 001

OTHER: 000

ATT PRESS: 3203

Card 2/2

GRABOYS, L.

Promotion of advanced experience. NTO no.12:52 D '59 (MIRA 13:3)

1. Chlen dorozhnogo pravleniya nauchno-tekhnicheskogo obshchestva
Odesskoy zheleznoy dorogi.
(Odessa--Railroads--Employees--Education and training)

GRABOVS, L.

Disseminating information by lectures. NTO 3 no. 1:55 Ja '61.
(MIRA 14:2)

1. Chlen pravleniya Dorozhnogo pravleniya Nauchno-tehnicheskogo
obshchestva Odesskoy zheleznay dorogi.
(Odessa—Railroads)

BEN'YAMINSON, Ye.S.; GRABOVS, M.G.

Disinsection and disinfection with hot moist air (steam-air mixture) of greater number of objects under reduced exposure; authors' abstract.
Zhur.mikrobiol.epid. i immun. 30 no.2:133-134 F '59. (MIRA 12:3)

1. Iz Moskovskoy gorodskoy dezinfektsionnoy stantsii.
(DISINFECTION AND DISINFECTANTS)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRAJESKA, Jozefna; STERMINSKA, Wanda (Krakow)

Index Seminum in the history of the Botanical Garden of the
Jagiellonian University. Wszechswiat no.11:259-261 N°63.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

GRABSKA, Stanislawa; KRZYWDZINSKI, J.

Survey of works of fine arts schools at the industrial
pattern fair. Przegl wlokiem 16 no.10:Suppl.: Biul C B Wzorn
Przem Lekkiego 3 no.7/8:14 0 '62.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

PASHTARUK, V.I., inzh.; GRABSKAYA, N.K., tekhnik

Modernization of the IIM-40-820x30/45 filter press. Khim.
mashinostr. no. 6;33-34 N-D '62. (MIRA 17:9)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

GRARSKI, A.

Exchange of experiences; technical progress in the Warsaw region. p. 185

GAZETA CUKROWNICZA (Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników
Przemysłu Rolnego i Spożywczego i Centralny Zarząd Przemysłu Cukrowniczego)
Warszawa, Poland. Vol. 61, no. 6, June 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 9, September 1959
Uncl.

STAS, Jerzy; GRABSKI, Jozef; MASNY, Natalia

Effect of experimental, hypothyroidism and of the administration of thyroxin on the level of proteins, lipoproteins and electrolytes in the blood serum of rats. Endokr. pol. 13 no.4:433-444 '62.

1. Katedra i Klinika Chorob Wewnętrznych Śląskiej AM w Katowicach
Kierownik: prof. dr J. Japa Katedra i Zakład Patologii Ogólnej i Doswiadczałnej Śląskiej AM w Zabrzu Kierownik: doc. dr B. Narbut.
(THYROIDECTOMY) (THYROXIN) (BLOOD PROTEINS)
(LIPOPROTEINS) (ELECTROLYTES)

KOSMIDER, Stanislaw; GRABSKI, Jozef; STRADOWSKI, Jan

Plasma sodium, calcium and potassium levels in rabbits during
experimental acute lead poisoning. Arch. immun. ther. exp. 11
no.1/2:303-306 '63.

1. II Clinic of Internal Diseases, Silesian School of Medicine,
Zabrze.

(LEAD POISONING) (CALCIUM) (POTASSIUM)
(SODIUM) (BLOOD CHEMICAL ANALYSIS)

KOSMIDER, Stanislaw; MISIENCZ, Adam; GRABSKI, Jozef

Effect of mercury ions on the level of some electrolytes in the
rabbit blood serum in acute experimental poisoning. Pat. Pol. 15
no.2z139-143 Ap-Je '64

1. Z Kliniki Chorob Wewnetrznych i Zawodowych Slaskiej Akademii
Medycznej w Zabrzu (Kierownika prof. dr.med. W. Zahorski).

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRABSKI, Witold, mgr., ins.

New type of ship elevator. Przegl mech 20 no.18:564-565 S '61.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

GRABSKI, Witold, mgr inz.

Technological progress of the shipbuilding industry in subcontracting enterprises in 1962. Bud okretowe Warszawa 7 no.9:305-307 S '62.

1. Zjednoczenie Przemyslu Okretowego, Warszawa.

GRABSKI, Witold, mgr inż.

Device for lifting arc covers. Przegl mech 21 no.3:89
10 F '62.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRABSKI, Witold, mgr. inz.

Water and oil coolers. Przegl mech 21 no.12:381. 25 Je '62.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

GRABSKI, Witold, mgr inż.

Technical progress in internal cooperation plants of the Polish
shipbuilding industry in 1963. Bud. okretowe Warszawa 8 no.8:
278-281 Ag '63.

1. Zjednoczenie Przemysłu Okretowego, Warszawa.

GRABSKI, Witold, mgr inz.

International maritime exhibition in Helsinki. Bud okretowe
Warszawa 9 no.1:18-20 Ja '64.

1. Zjednoczenie Przemyslu Okretowego, Warszawa.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRABSKI, M.

"Aeroplanes on skis" p. 204 (Skrzynla I Motor, Vol. 8, no. 13, Mar 53, Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Unclassified

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

GRABSKI, S.

The construction of grain and flour chambers. p. 83

PRZEGLAD ZBOZOWO-MLYNARSKI (Polskie Wydawnictwo Gospodarcze) Warszawa, Poland
Vol. 3, no. 3, Mar 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 9, September 1959.
Unci.

GRABSKI, W.

The problem of the disintegration of stone in the historical monuments in Krakow. p. 72.
(MATERIAJY BUDOWLANE, Vol. 12, No. 3, Mar. 1957, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

GRABSKI, Witold, mgr., inz.

Technical progress in enterprises of internal cooperation. Bud okretowe
Warszawa 6 no.9:267-270 '61.

1. Zjednoczenie Przemyslu Okretowego.

(Poland—Shipbuilding)

GRABSZewska, M.

GRABSZewska, M.

Cold and warm walls of buildings.

p. 23 (Budownictwo Wiejskie) Vol. 7, no. 1, Jan./Feb. 1955, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

VAYNER, Ye.M.; DYATLOVA, V.P.; POMANSKAYA, M.P.; GRABYL'NIKOVA, K.A.

Production of rubber linoleum and a mastic for gluing it down.
Stroi.mat. 8 no.7:26-27 Jl '62. (MIRA 15:8)
(Linoleum) (Glue)

CHUDNOVSKIY, A.R., inzh.; VAIKER, L.V., inzh.; GRABYY, L.P., inzh.

Making die-casting molds of thermoplastic polymers for casting
parts. Mashinostroenie no.3:79-80 My-Je '63.
(MIRA 16:7)

1. Chernomorskiy sovet narodnogo khozyaystva.
(Die casting—Equipment and supplies)
(Thermoplastics)

GRACA, J.

Contribution to research on soils in the hop areas of Czechoslovakia.
p.1-46. Ceskoslovenska akademie ved. ROZPRAVY. RADA MATEMATICKO-
prirodovedecka. Praha. Vol. 65, no. 6, 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress
Vol. 4, No. 12, December 1955

FEV 17, 1986; GRIG, Zdenek

Optimization problems of chemical production processes. Chem
prum 14 no. 9:451-455 S '64.

1. Technical and Economic Research Institute of Chemical
Industry, Prague (for Felix). 2. Slovenská National Enterprise,
Neratovice (for Grac).

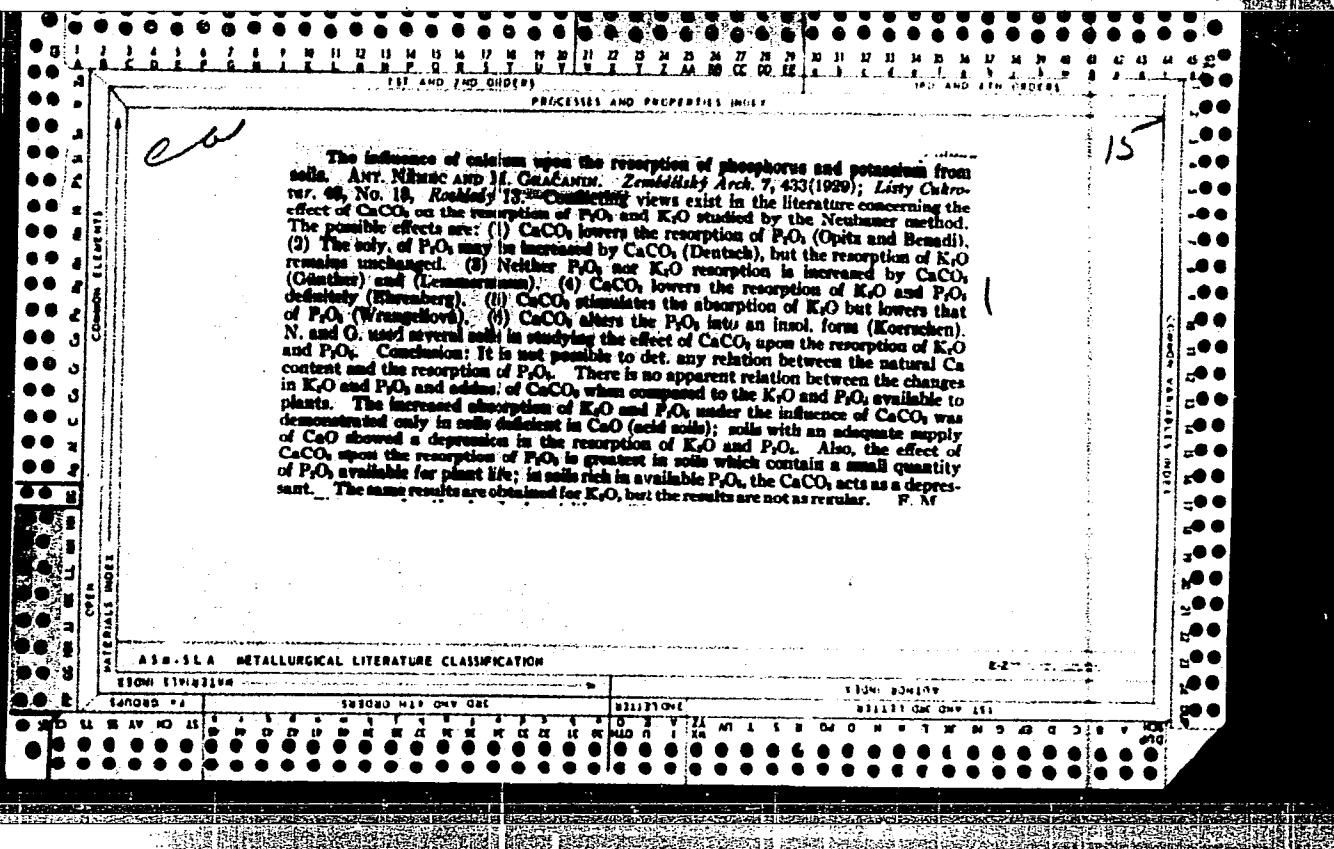
Country : Yugoslavia
CATEGORY : K-6
ABS. JOUR. : RZBiol., No. 19, 1958, No. 87100
AUTHOR : Gracan, R.
INST. :
TITLE : The Most Effective Methods of Selection of
Grasses.
ORIG. PUB. : Agron. glasnik, 1957, 7, No 9-10, 347-351
ABSTRACT : No abstract.

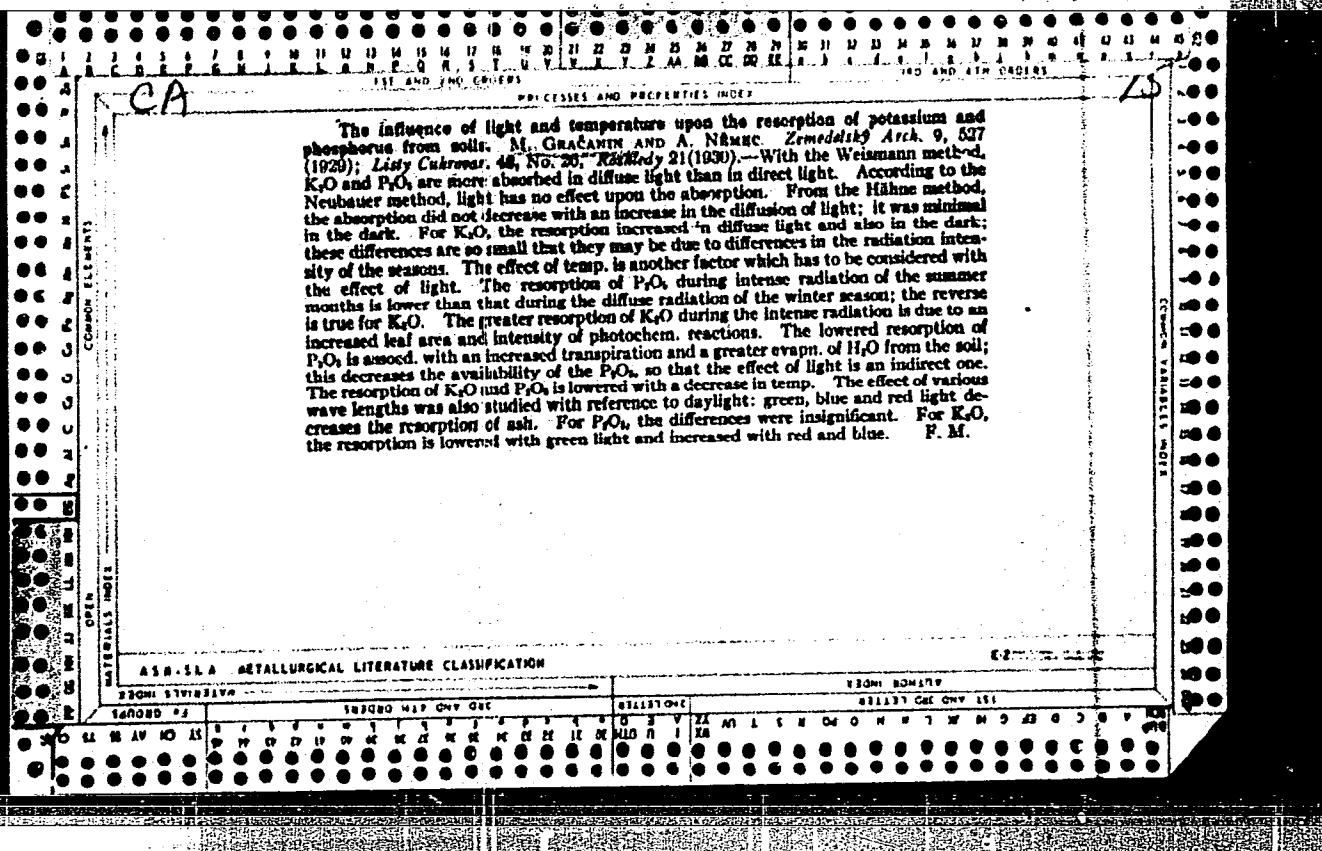
CARD: //

GRACAN, R.

Biologic and economic characteristics of the domestic types of
Lolium perenne. Bul sc Youg 9 no.6:171-172 D '64.

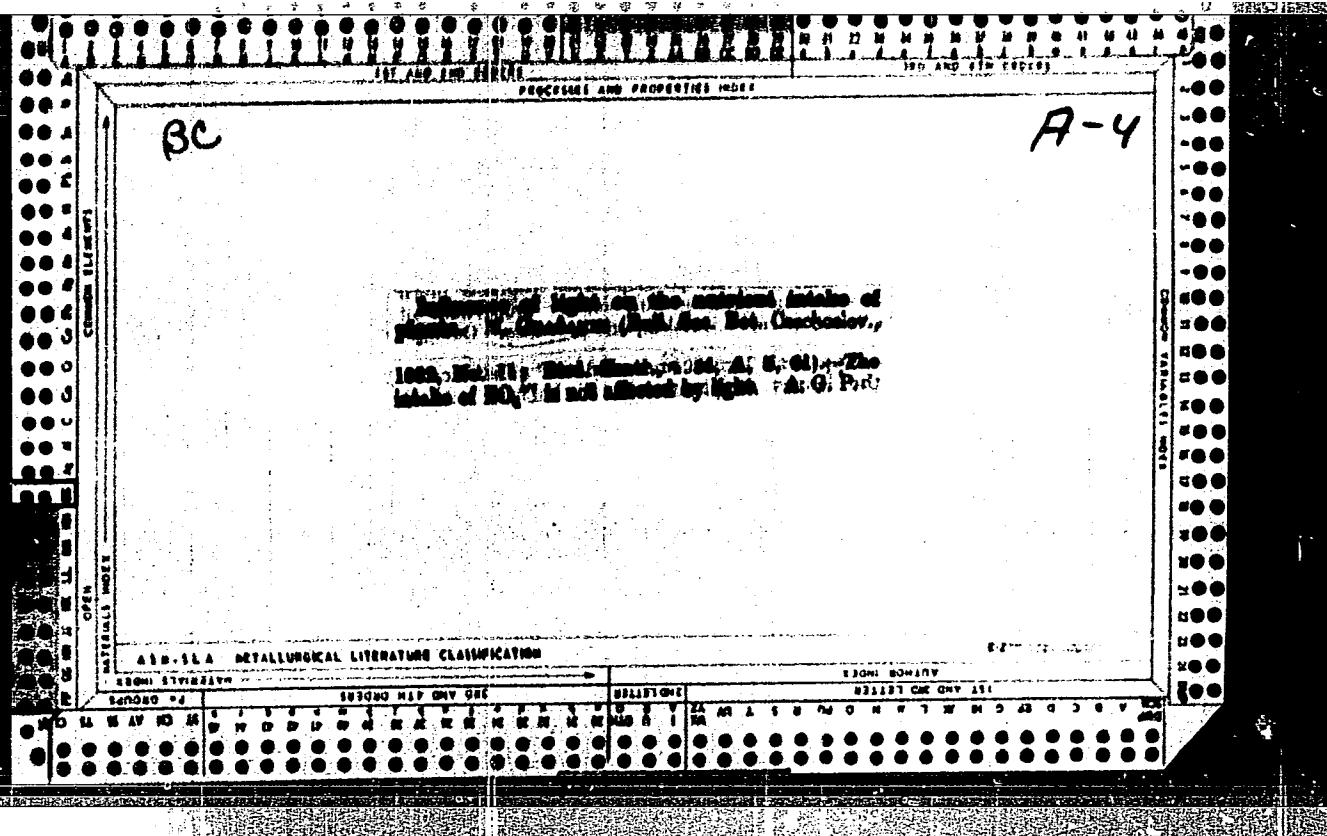
1. Institute of Plant Culture of the Agricultural Faculty,
Zagreb. Submitted July 22, 1963.





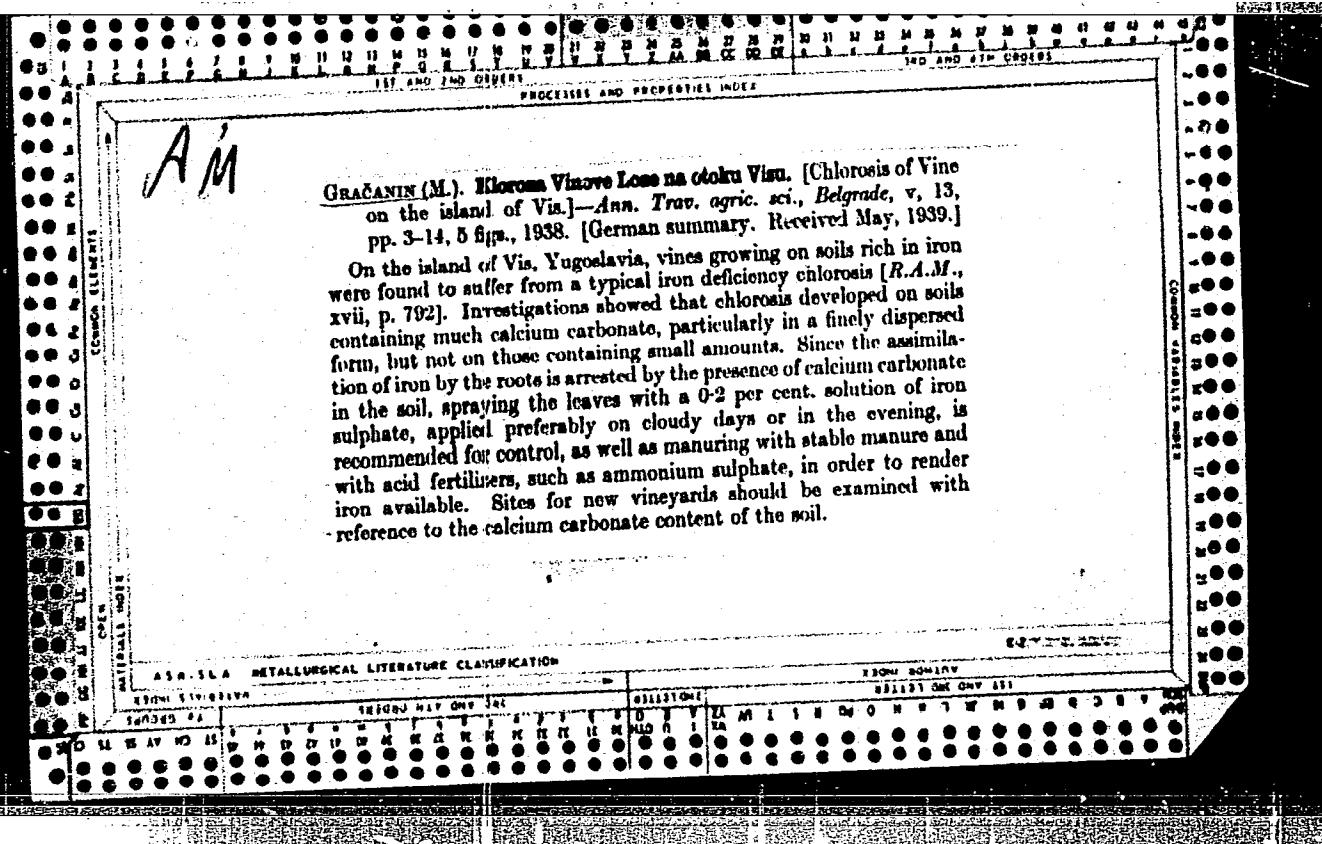
"APPROVED FOR RELEASE: 03/13/2001

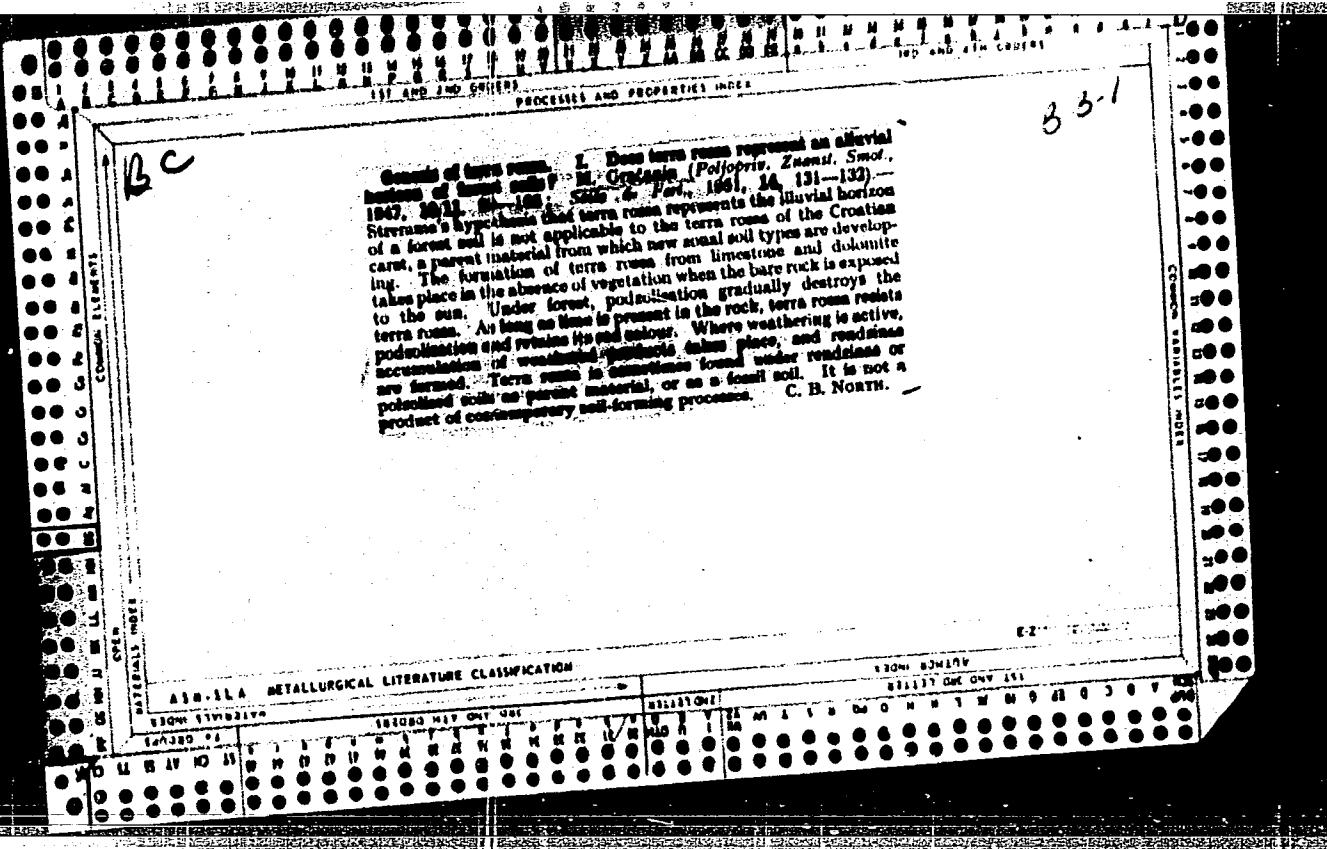
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15

The problem of evaluation of soil structure. M. Grapanin
(Univ. Zagreb, Yugoslavia). *Trans. Intern. Congr. Soil Sci.* 4th Congr., Amsterdam 1950, I, 40-3, 421-3; IV, 27-9.
The necessity of an international unification of soil structure designations and the methods of deter. structural qualities are discussed and alternate propositions presented.

Ned R. Jaffa

*Bv. ab.**B111-1 Agriculture*

The absorptive capacity of soil soils (terra rossa) of Littoral Croatia. M. Grgurevic, *Revue Sci. Agric.*, Zagreb, 1960, 12, 163-181).—The exchangeable base content of primary terra rossa varied from 31.7 to 49.6 mill-equiv., the degraded terra rossa having much lower contents. The base distribution of the soil profiles was highly variable. The base-absorbing capacity of the primary soils averaged 40-60 mill-equiv., and was reduced as the degree of degradation increased. The base-absorbing capacity was max. almost invariably in the A₁ horizon. The degree of base saturation diminished in degraded types and was more reliable than was the base capacity as an index of the degree of degradation. The distribution of the bases observed on the colloid complex of the soils is examined. In degraded terra rossa, the E horizon always contained more bases than did the A horizon. *Unpublished*. P. J. Bovitz.

GRACANIN, M.

The root system as a barrier in the ion and water absorption. Bul sc Youg 8 no.3/4: 66-67 Je-Ag'63.

1. Prirodno-matematski fakultet, Skopje. Membre du Comite de redaction, "Bulletin scientifique".

GRACANIN, M.

A contribution to the genesis of the red soils of the Skopje Valley. Bul sc Yough 9 no.3:62-69 Je '64.

1. Faculty of Natural Sciences and Mathematics, University of Skopje, Skopje.

GRACANIN, M.; GRUPCE, Lj.

Transpiration rate and volume of some species of the Gazibaba
Botanical Garden in Skopje under normal conditions. Izdanija
Priravnog muzeja Skopje 9 no.5:75-120 '64.

Z.GRACANIN

"ON THE HORIZONTAL ROOTS IN PINE AND SPRUCE STAND I. by Kalela Erkki K;
a book review. p. 97" (SUNARSKI LIST. Vol. 77, No. 2. 1953.
Zagreb, Yugoslavia)

SO: Monthly List of East European Acquisitions, L.C., Vol. 2, №. 11,
Nov. 1953, Uncl.

PA - 2512

AUTHOR

GRACH A.D.

TITLE

The Problem of the Ethnogenesis of the Kirgizian People.
(Problema Yetnogeneza kirgizzkogo naroda. Sessiya vo Frunze -Russian)
Vestnik Akademii Nauk SSSR, 1957, Vol 27, Nr 2, pp 123-125, (U.S.S.R.)

PERIODICAL

ABSTRACT

A Conference was held at Frunze on 10-14 November 1956 with the participation of scientists and men of letters from Leningrad, Moscow, Kirgiz, Kazakhstan, Uzbekistan, Turkmenia, Tadzhikistan, Tuva, Caucasia, etc.

A.N.Bernstamm (Leningrad) spoke about the composition of the Turkish-speaking population in Central Asia and the origin of the Kirgizian people. He pointed out that the first traces of the development of the Turkish language in Central Asia and Kazakhstan date back to about 1000 B.C. while the tribes living in Southern Siberia had begun to adopt the Turkish language in the 3rd century A.D. The Kirgizian tribes had settled on the upper reaches of the river Enisy and had repeatedly migrated to other regions in the course of their development. A comprehensive ethnographical report was then given by S.A.Abramson (Leningrad). The Kirgizian people, from an ethnical point of view, are composed of Central Asiatic-, Kazakh-, and Turkestanian elements. The word "Kyrgyz", the speaker said, has no ethnical but only a political meaning.

E.I. Makhova (Moscow) spoke about the cultural development of the Kirgizian people which was influenced by that of Mongolian and South-Siberian peoples.

The opinion prevailed that the Kirgizian people and its culture origi-

Card 1/2

The Problem of the Ethnogenesis of the Kirgizian People PA - 2512
nated from two basic components, one of Central- and one of Southern
Asia, the former being predominant.

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Card 2/2

MAKHLYAGIN, K.P., inzhener; GRACH, N.I., inzhener; CHINKOV, M.I.; TOLCHEK,
D.B., redaktor; YEGOROV, G.P., redaktor; KOROVENKOVA, Z.A., tekhnicheskiy redaktor.

[Innovators of open-pit coal mines of the northern Urals] Novatory
ugol'nykh rasresov Severnogo Urala. Moskva, Ugletekhnizdat, 1954.
66 p. (MLRA 8:9)
(Ural Mountain region--Coal mines and mining)

GRACH, I., inzh.

Hundred years of the Vorob'ev Machine Building Plant. Muk.-elev.
prem. 24 no.10:22-23 0 '58. (MIRA 11:12)

1.Ger'kevskiy machinestroitel'nyy zaved im. M. Vorob'yeva.
(Gerkiy--Grain milling machinery)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRACH, I.Ye., inzh.

Continuous 27-ton semiautomatic molding line. Sbor. st.
NITIZARMASH Uralmaishzavoda no. 919-17 '65.

(MIRA 18:8)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

GRACH, L.Ye.

Continuous lines for making small and medium-size steel castings.
Sbor. st. NIITIAZHMASHa Uralsmashzavoda no. 9:97-116 '65.

(MIRA 18:8)

GRACH, M.Ye.

Regulate the publication of price lists. Standartizatsiia
25 no.10:42 0 '61. (MIRA 14:9)
(Catalogs, Commercial)

GRASHCHENKOV, N.I., professor; KASSIL', G.N. (Moskva):(Po materialam S.P. Vinitskovskoy, G.S. Vorza, S.M. Grach, N.G. Grachenoy, M.B. Dunayevskoy F.A. Rosinoy, V.V. Stankevich. A.L. Sheakhman, A.A. Shmidt)

Data on nasal reflex therapy in medical practice. Klin. med. 33 no. 9:12-17 S '55. (MLRA 9:2)

1. Iz terapavticheskogo, nervnogo i fizioterapevticheskogo otdeleniy Moskovskoy ordena Lenina bol'nitsy imeni S.P. Botkina i nauchno-issledovatel'skoy gruppy pri otdelenii biologicheskikh nauk Akademii nauk SSSR. 2. Deystvitel'nyy chlen AMN SSSR (for Grashchenkov)
(THERAPEUTICS,
mass reflex ionogalvanic ther. technic)
(ELECTROTHERAPY,
mass reflex ionogalvanic ther. technic)

SOV/124-58-2-2512

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 130 (USSR)

AUTHOR: Grach, S. A.

TITLE: Contribution to the Subject of the Strain Measurement by Means of
Long-base Strain Gages (K voprosu ob izmerenii deformatsiy
tenzodatchikami s bol'shoy bazoy)

PERIODICAL: Dopovidi ta povidomlennya. Lviv's'k, u.n-t, 1955, Nr. 6, part 2.
pp 104-108

ABSTRACT: The author proposes a calculation method for the determination of
the influence of the strain-gage base length on the experimental veri-
fication of theoretical results of problems of the theory of elasticity
of plates.

Reviewer's name not given

Card 1/1

USCOMM-DC-61,133

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRACH, S.A.

Deflection measuring instrument. Izm.tekh.no.5:77 S-0 '56.
(Measuring instruments) (MLRA 10:2)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRACH, S.A.

Instrument used for automatic recording of deformation graphs. Ism.
(MLRA 10:8)
tekhn. no. 4:59-61 J1-Ag '57.
(Strain gauges)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4"

SOV/124-59-1-754

Translation from: Referativnyy zhurnal. Mekhanika, 1959, Nr 1, p 110 (USSR)

AUTHOR: Grach, S.A.

TITLE: Bending of a Circular Ring Plate, the Edges of Which are Reinforced by Means of Thin Elastic Ring Ribs of Rigidity

PERIODICAL: Dopovidi ta povidomlennya. L'viv's'k. un-t, 1957, Nr 7, part 3, pp 259-264

ABSTRACT: A circular plate of the radius R_1 , weakened by a circular aperture of the radius R and evenly loaded with a transverse load p along the internal contour is considered. The edges of the plate are reinforced by means of elastic ring rigidity ribs. From the general solution at various values of δ_1 and δ_2 , which represent relative rigidities of the reinforcing rings with respect to bending solutions for the various cases of fixing contour can be obtained: rigid fixing, hinged support, etc. The theoretical calculations are compared with experimental results. The agreement of the theoretical and the experimental results is satisfactory.
Bibl. 4 titles.

M.S. Kornishin

✓

Card 1/1

SOV/124-58-7-7913

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 88 (USSR)

AUTHOR: Grach, S. A. [Hrach, S. A.]

TITLE: Results of a Theoretical Solution for Certain Problems of the Flexure of Plates Having Reinforced Edges and Experimental Verification Thereof (Rezul'taty teoreticheskogo resheniya i eksperimental'naya proverka nekotorykh zadach ob izgibe plit s podkreplennymi krayami) in Ukrainian

PERIODICAL: Nauk. zap. L'vivsk. un-t, 1957, Vol 44, pp 210-216

ABSTRACT: A description is given of an experiment conducted to verify formulae for the calculation of a circular plate having a hole through its center, the plate being reinforced with annular stiffening ribs, one along its external circumference and one around the contour of the hole. Comparing the calculations with the experimental results for the deflection and peripheral deformation of the inner rib revealed a discrepancy which did not exceed 3-5%.

L. Ye. Andreyeva

Card 1/1

1. Metal plates--Flexing 2. Metal plates--Theory 3. Metal plates--Test results

SOV/115-~~5~~-14/36

AUTHOR: Grach, S.A.

TITLE: An Electromechanical Deflectometer (Elektromekhani-
cheskiy progibomer)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 5, pp 31-32 (USSR)

ABSTRACT: The author has designed a universal, electromechanical deflectometer at the L'vovskiy gosudarstvennyy universitet (L'vov State University). The surface of the blank to be examined is in close contact with the point of the measuring end piece of the deflectometer up to the point of deformation. The end piece is screwed on to a boss which is shifted along the body according to the deformation. A prism is screwed on perpendicular to the boss. One end of a small beam is attached by two screws to the prism, the other end to a sliding sleeve. Various degrees of beam deformation can be attained with one and the same degree of displacement of the boss. For measuring small deflections, the beam is made of a thin strip of rolled

Card 1/2

SOV/115-~~5~~5-14/36

An Electromechanical Deflectometer

phosphorus bronze with good resilient qualities. For measuring relatively large deflections, the beam is made of spring steel. The conversion of mechanical readings into electrical is achieved by means of wire deformation pick-ups which are glued to both sides of the beam. When the boss is displaced downwards, the beam is bent, the wire pick-ups are stretched and the cross section of the wires is reduced, which results in a change in the pick-up's resistance. For feeding the pick-ups and recording the changes in resistance, there is a specially constructed multi-channel measuring bridge, which serves for several deflectometers. Visual readings from the device (a mirror galvanometer or microammeter) or automatic recording of the "force-deflection" diagram are possible. There are 2 diagrams.

Card 2/2

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29557
S/122/61/000/005/004/013
D221/D304

AUTHORS: Fleyshman, N.P., Candidate of Physical and Mathematical Sciences, Docent, and Grach, S.A.

TITLE: Axial symmetry bending of round and ring plates with concentric draws

PERIODICAL: Vestnik mashinostroyeniya, no. 5, 1961, 19 - 23

TEXT: The authors consider a plate with a drawn portion, and subject to an arbitrary load, (Fig. 1), as a composite elastic body, consisting of a round plate ($r \leq R$) with a thickness h_1 , ring plate ($R \leq r \leq R_1$) and h_2 thick, and two thin stiffening ribs. The interaction between various parts is shown diagrammatically in Fig. 2. Sags w and radial displacements v or the central surface are discussed by M.M. Filonenko-Borodich^r (Ref. 1: Teoriya uprugosti (Theory of Elasticity), Fizmatizdat, 1959). For $0 \leq r \leq R$,

$$w_1 = w^0 + D_3 + D_4 \frac{r^2}{R^2}, \quad (1)$$

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D221/D304

Axial symmetry bending of round ...

and

$$v_{r_1} = A_1 r; \quad (2)$$

whereas for $R \ll r \leq R_1$ -

$$w_2 = w^{00} + C_1 \ln \frac{r}{R} + C_2 \frac{r^2}{R^2} \ln \frac{r}{R} + C_3 + C_4 \frac{r^2}{R^2}, \quad (3)$$

and

$$v_{r_2} = \frac{B_1}{r} + B_2 r \quad (4)$$

are deduced. In the above it is assumed that $w^0 = w^0(r)$ and $w^{00} = w^{00}(r)$ are known arbitrary quotients of solution of the differential equation of bending $\Delta\Delta w = q_i(r)/D_i$, where $q_i(r)$ is the load of the corresponding part of plate ($i = 1, 2$); D_i is the cylindrical rigidity on bending. The above equations allow the radial and transversal forces as well as moments which act on the stiffening ribs to be determined. The resulting twists are given by S.P. Timoshenko.

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Axial symmetry bending of round ...

ko (Ref. 2: Soprotivleniye materialov (Resistance of Materials), t. II, OGIZ, Gostekhizdat, 1946), where it is assumed that the height of drawn part is insignificant. Radial displacements of points on axial lines of stiffening ribs are expressed by

$$\left. \begin{aligned} u_1 &= -\frac{R^2}{E_F} (N_1 - N_2)_{r=R}; \\ u_2 &= -\frac{R_1^2}{E_*F_*} (N_2)_{r=R_1}, \end{aligned} \right\} \quad (7)$$

X

where A and EF are the rigidity on bending and tension of internal rib; A = EJ; A* and E*F* are rigidities due to bending and tension of the external rib; A* = E*J* (J and J* are moments of inertia of surfaces of cross sections in the ribs); E and E* are moduli of elasticity of materials of ribs. When h = h*, then the plate is supported by two stiffening ribs, symmetrically disposed with re-

Card 3/5

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S/122/61/000/005/004/013
D221/D304

Axial symmetry bending of round ...

spect to the central plane. If $D_1 = 0$, then the solution is that of a plate with a central circular hole. A case is then considered of bending a plate due to concentrated load applied at its center. In the set of equations there is a coefficient β which characterizes the effect of the drawn part, and it depends on parameters A , $E\Gamma$, h_0 and η . Tabulated data reveal that sag of plate will be minimum when $\eta \approx 1.5$. Graphs of bending stresses $\sigma_r^0 = 6M_r/h^2$ and $\sigma_\theta^0 = 6M_\theta/h^2$ for $\eta = 1.5$ are plotted. It should be noted that in addition to bending stresses, the plate is also subject to normal stresses σ_{ri}^* and $\sigma_{\theta i}^*$, which are uniformly distributed along the thickness of plate. Calculations demonstrated that stresses σ_r^* and σ_θ^* are practically independent from ratio b/R (b is the width of rib in the drawn part). Their maximum is at $h_0/h \approx 0.2$. Stresses σ_r^0 and σ_θ^0 are superimposed on stresses σ_r^* and σ_θ^* , and therefore, the total stress in a plate with a drawn part is lesser than in a

Card 4/5

Axial symmetry bending of round ...

29557
S/122/61/000/005/004/013
1/221/D304

plain plate. At the same time, maximum sag in the center of a plate with a drawn part is 4 times smaller than the maximum bending of a plain plate. There are 4 figures, 3 tables and 5 Soviet-bloc references.

Fig. 1.

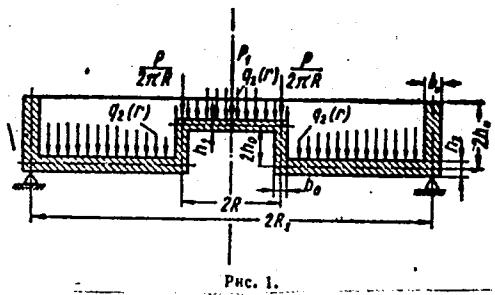
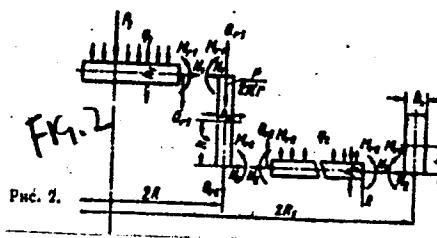


Fig. 2.



Card 5/5

GRACH, S.A.

Bending of circular plates with variable rigidity reinforced by central spinning and subjected to the action of a concentrated force in the center. Trudy LVMI 1:87-105 '62
(NIRA 17:7)

Bending of circular plates with variable rigidity reinforced by central spinning and subjected to the action of concentrated loading. Ibid. 1:106-111

FLEYSHMAN, N.P., doktor tekhn.nauk; GRACH, S.A., kand.tekhn.nauk

Design of circular and annular plates with extrusions and
annular stiffeners. Resch.na prochn. no.11:64-65 '65.
(MIRA 19:1)

GRACH, M.Ye.

Standardization of machines and equipment for mills and grain elevators. Standartizatsia 27 no.10:8-10 O '63.
(MIRA 16:11)

ZABIMLOTSKIY, Lazar' Markovich; KUZ'MIN, Aleksandr Nikolayevich; FEL'DMAN,
Aleksandr Yakovlevich; APTERIN, V.I., retsenzent; PLIMYANNIKOV,
M.N., red.; GRACHEV, A.M., red.; KOGAN, V.V., tekhn. red.

[Reference manual for the manufacture of spun and woven goods;
ribbon and braid weaving] Spravochnik po tekstil'no-galantereinomu
proizvodstvu; lento tkachestvo i pletenie. Moskva, Gos. nauchno-
tekhn. izd-vo lit-ry po lekkoi promyshl., 1958. 565 p.
(Textile machinery) (Weaving) (Spinning) (MIRA 11:9)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

~~GRACHEV~~ - Geroev Sovetskogo Soyuza; VYGOMOV, V., master planernogo sporta
~~MARINENKOV~~, V., master parashyutnogo sporta

To instill athletic pride in our aeronautic clubs. Voen. znan.
25 no.4:17 Ap '49. (MIRA 12:12)
(Aeronautical societies)

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CIA-RDP86-00513R000516510009-4"

41717-65 EMT(a)/EWA(d)/EWP(t)/EWP(k)/EWP(b)/EWA(c) Pf-4 JD/HW
ACCESSION NR: AP5010851 UR/0286/65/000/007/0013/0013

AUTHOR: Grach, V. N.

TITLE: A collector for hydroexplosive stamping. Class 7, No. 169481

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 13

TOPIC TAGS: metal stamping, waste disposal, hydroforming, explosive forming

ABSTRACT: This Author Certificate presents a collector for hydroexplosive stamping which protects the compartment from thrown-out water and separated gases, the collector being formed as a conical receptacle mounted on a carriage and connected through jacks and a vertically movable clutch to a fixed reflector, an exhaust pipe, and a roof, all of which are mounted coaxially with the tank in the upper part of the compartment.

ASSOCIATION: none

SUBMITTED: 13Nov62

ENCL: 00

SUB CODE: IE

NO REF Sov: 000

OTHER: 000

Card 1/1 inc

GRACHEV, A.; YEVDOKIMOV, V.

Reducing administrative expenses. Moloch. prom. 18 no. 4:31 '57.
(MIRA 10:4)

1. Yessentukskiy molochnyy zavod.
(Dairy industry)

ASNOVICH, Ya.; GRACHEV, A.

Device for repairing main braking and wheel braking cylinders
on the GAZ-51 automobile. Avt. transp. 34 no. 7:25-26 J1 '56.
(MLRA 9:10)

(Automobiles--Brakes)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000516510009-4

GRACHEV, A.

Modern concepts of the evolution of relief. Biul.SNO LGU no.1:
85-97 '58. (MIRA 13:6)
(Physical geography)

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